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1. Document ID: US 6904594 B1

L6: Entry 1 of 3

File: USPT

Jun 7, 2005

US-PAT-NO: 6904594

DOCUMENT-IDENTIFIER: US 6904594 B1

TITLE: Method and system for apportioning changes in metric variables in an symmetric multiprocessor (SMP) environment

DATE-ISSUED: June 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Berry; Robert Francis	Austin	TX		
Howard; John Day	Austin	TX		
Levine; Frank Eliot	Austin	TX		
Urquhart; Robert J.	Austin	TX		

US-CL-CURRENT: 718/100, 717/130, 717/158, 718/102, 718/107

ABSTRACT:

A method and system for monitoring performance of a program using global metric variables to provide the support in an symmetric multiprocessor (SMP) system. A Java virtual machine (JVM) either calls the profiler whenever bytes are allocated or provides an interface to allow the profiler to determine the value of the change in the metric for the current thread. The profiler then applies the changes to a metric for the current thread. Alternatively, per processor data areas are maintained for storing per processor metric values. Whenever a thread switch occurs or there is a request for the metric on a specified thread, an operating system kernel updates the thread level metric values with changes in the values per processor metrics.

43 Claims, 41 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 18

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Dra
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2. Document ID: US 6898785 B2

L6: Entry 2 of 3

File: USPT

May 24, 2005

US-PAT-NO: 6898785

DOCUMENT-IDENTIFIER: US 6898785 B2

TITLE: Handling calls from relocated instrumented functions to functions that expect a return pointer value in an original address space

DATE-ISSUED: May 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ramasamy; Vinodha	Campbell	CA		
Gouriou; Eric	Sunnyvale	CA		
Hundt; Robert	Sunnyvale	CA		

US-CL-CURRENT: 717/129; 714/34, 717/130, 717/131, 717/133

ABSTRACT:

Method and apparatus for handling calls from relocated instrumented functions to functions that expect a return pointer value in an original address space. In various embodiments of the invention, instrumented versions of selected functions of an executable program are generated and stored in a relocation address space. When a function is called by a function in the relocation address space, a return pointer register stores a first return-pointer value that is an address in the relocation address space. The address in the original address space that corresponds (logically) to the first return-pointer value is identified as an original return-pointer value. The first return-pointer value is associated with the original return-pointer value, references to the original return-pointer value are substituted for references to the first return-pointer value, and the instruction at the address indicated by the original return-pointer value is replaced with a breakpoint. When the breakpoint is encountered upon return of control at the original return-pointer value, the first return-pointer value that is associated with the original return-pointer value is obtained, and control is transferred to the instruction at the address referenced by the first return-pointer value.

14 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

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3. Document ID: US 6895578 B1

L6: Entry 3 of 3

File: USPT

May 17, 2005

US-PAT-NO: 6895578

DOCUMENT-IDENTIFIER: US 6895578 B1

TITLE: Modularizing a computer program for testing and debugging

DATE-ISSUED: May 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kolawa; Adam K.	Bradbury	CA		
Byers; Chad E.	San Luis Obispo	CA		

US-CL-CURRENT: 717/130; 717/134, 717/143

ABSTRACT:

A system and method for facilitating and simplifying testing and debugging of computer programs. is described A computer program is broken down to smaller components, such as, classes, functions, or objects, and then those smaller components are tested individually. Accordingly, specific aspects of the computer program can be effectively tested. The user can automatically perform a range of tests on a class or method when the class or method is compiled without integrating the class or method into a larger project.

37 Claims, 30 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 27

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